#### **RAW SEQUENCE LISTING** PATENT APPLICATION US/08/938,548B

DATE: 09/17/98 TIME: 09:12:00

INPUT SET: S28690.raw

```
This Raw Listing contains the General Information Section and up to the first 5 pages /
 1
 2
            General Information
 3
     (1)
 4
             (i) APPLICANT: Yanagisawa, Masashi
 5
           Bergsma, Derk
 6
 7
           Wilson, Shelagh
           Brooks, David
 8
           Gellai, Miklos
 9
10
            (ii) TITLE OF THE INVENTION: NOVEL LIGANDS OF THE NEUROPEPTIDE
11
                      RECEPTOR HFGAN72
12
13
            (iii) NUMBER OF SEQUENCES: 21
14
15
16
            (iv) CORRESPONDENCE ADDRESS:
              (A) ADDRESSEE: SmithKline Beecham Corporation
17
              (B) STREET: 709 Swedeland Road
18
19
              (C) CITY: King of Prussia
20
              (D) STATE: PA
              (E) COUNTRY: United States of America
21
22
              (F) ZIP: 19406
23
24
            (v) COMPUTER READABLE FORM:
25
              (A) MEDIUM TYPE: Diskette
26
              (B) COMPUTER: IBM Compatible
27
              (C) OPERATING SYSTEM: DOS
              (D) SOFTWARE: FastSEQ for Windows Version 2.0
28
29
30
            (vi) CURRENT APPLICATION DATA:
31
              (A) APPLICATION NUMBER: 08/938,548
32
              (B) FILING DATE: 26-SEPT-1997
33
              (C) CLASSIFICATION:
34
35
     (vii) PRIOR APPLICATION DATA:
36
              (A) APPLICATION NUMBER: 08/887,382
37
              (B) FILING DATE: 2-JUL-1997
38
            (vii) PRIOR APPLICATION DATA:
39
40
              (A) APPLICATION NUMBER: 08/820,519
              (B) FILING DATE: 19-MAR-1997
41
42
43
              (A) APPLICATION NUMBER: 60/033,604
              (B) FILING DATE: 17-DEC-1997
44
45
            (viii) ATTORNEY/AGENT INFORMATION:
46
```

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/938,548B

DATE: 09/17/98 TIME: 09:12:02

1920

INPUT SET: S28690.raw

```
(A) NAME: Elizabeth J. Hecht
47
            (B) REGISTRATION NUMBER: 41,824
48
49
          (C) REFERENCE/DOCKET NUMBER: ATG50037-2
50
51
           (ix) TELECOMMUNICATION INFORMATION:
52
             (A) TELEPHONE: 610-270-5009
       (B) TELEFAX: 610-270-5090
53
             (C) TELEX:
55
              (2) INFORMATION FOR SEQ ID NO:1:
56
57
58
          (i) SEQUENCE CHARACTERISTICS:
59
             (A) LENGTH: 1970 base pairs
             (B) TYPE: nucleic acid
60
             (C) STRANDEDNESS: single
61
          (D) TOPOLOGY: linear
62
63
64
           (ii) MOLECULE TYPE: Genomic DNA
65
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
66
67
68
     AAAACATAAT GTGGGTCTCG CGTCTGCCTC TCTCCCGCCC CTAATTAGCA GCTGCCTCCC
                                                                           60
69
     TCCATATTGT CCCAGGCCAG CGCTTCTTTT GTGCTCCCAG ATTCCTGGGT GCAAGGTGGC
                                                                           120
     CTCATTAGTG CCCGGAGACC GCCCCATCTC CAGGGAGCAG ATAGACAGAC AAGGGGGTGA
70
                                                                           180
     TCAGGGGCAC AGTGATCCAA CCCTGGCCTC TGAACGCCGC AGCGGCCATT CCTTGGGCCC
                                                                           240
71
     AGCCTGGAGA CGGCCCCCT GCAGCAGGCT AATCTTAGAC TTGCCTTTGT CTGGCCTGGG
                                                                           300
72
     TGTGGACGCA ATGTGCCTGT CAATTCCCCG CCACCTCAGA GCACTATAAA CCCCAGACCC
73
                                                                           360
     CTGGGAGTGG GTCACAATTG ACAGCCTCAA GGTTCCTGGC TTTTTGAACC ACCACAGACA
                                                                           420
74
     TCTCCTTTCC CGGCTACCCC ACCCTGAGCG CCAGACACCA TGAACCTTCC TTCCACAAAG
75
     GTAAAGATCC AGGGATGGAG GGGTGACTCA GCCATCCCAG AGGAAGCAAA AAGAGTGCTT
76
     GCTCAGAGGG CTGGAAGAAA GGCCAAAGGT GTCTCCACTC TTGGTCTTTT CCTGGGTGTG
77
     CTCTGAGGCA GGAGCACCTG CCTTGGCTCA CATTGGGTTG GGTGCTGTTT TGCTAAGAGC
78
                                                                           660
     CTGTGTTTGC TGAGCTCATA TGTGTCAGGT GCTCCGTTTG CACCTGTCAT CTCTTGTCAT
79
                                                                           720
     CCTCCCAACA GCCTTGCAGA GTAGAAATTA TTTCTAGTAT ACCCAGTTTA CAGGTAAGGG
                                                                           780
80
     AGCTGTGCCC TCTGAAAGGG CAGGAAACTG GTTCAAAGCA ACGGAGTTCA GTCACTCCTG
                                                                           840
81
     CAAGGGGGCA GGCAGATGAG AGAGCATTCT GGAGTCTTGC TAGTTCCTGA TTTCCATGTG
                                                                           900
82
     TTTCCCTGCT GTGGAGAGGA AGTTGGGGGG ACTCAGTAGG GCCCGGGTTT TTCCCAAGTT
83
                                                                           960
     TACAACTTCT GCTGCAGACA GACACTCCTG TTTTCAGGTG GAGTGGCAAG TGCCCTAGTG
     GTGGCAACAG TGGCCTAAGT CTCCAGAGAA AAGGGGGATT CACTCTGCCC AGGGGGTCTC
86
     AAAAGGCTTC CTGTGGGAGA TGCTCTGCTG GGTCTTGAAG GAGGAGCAGG GAAAGTAGGC
     CGATACCAGC AAGGGCGCAA AGCAAGGAGA ACTAAGTGAC AGCCAGAAAG GAGTGCAGGC
87
     TTGGAGGGG CGCGGAGCCA GAGGGGCAGG TCCTGTGCGT GGGAGCTGGT GGCGGCCGCC
                                                                          1260
88
     GTGGGAAGAC CCCCCCAGCG CCCTGTCTCC GTCTCCCTAG GTCTCCTGGG CCGCCGTGAC
                                                                         1320
89
     GCTACTGCTG CTGCTGCTGC TGCTGCCGCC CGCGCTGTTG TCGTCCGGGG CGGCTGCACA
90
     GCCCTGCCC GACTGCTGTC GTCAAAAGAC TTGCTCTTGC CGCCTCTACG AGCTGCTGCA
91
     CGGCGCGGC AATCACGCGG CCGGCATCCT CACGCTGGGC AAGCGGAGGT CCGGGCCCCC
92
     GGGCCTCCAG GGTCGGCTGC AGCGCCTCCT GCAGGCCAGC GGCAACCACG CCGCGGGCAT
93
     CCTGACCATG GGCCGCCGC CAGGCGCAGA GCCAGCGCCG CGCCCCTGCC TCGGGCGCCG
94
     CTGTTCCGCC CCGGCCGCC CCTCCGTCGC GCCCGGAGGA CAGTCCGGGA TCTGAGTCGT
95
     TCTTCGGGCC CTGTCCTGGC CCAGGCCTCT GCCCTCTGCC CACCCAGCGT CAGCCCCCAG
                                                                         1740
96
     AAAAAAGGCA ATAAAGACGA GTCTCCATTC GTGTGACTGG TCTCTGTTCC TGTGCGGTCG
97
                                                                         1800
     CGTCCTGCCC ATCCGGGGTG GCAAAGCGTC TTGCGGAGGA CAGCTGGGCC TGGAAGCCCG
98
                                                                          1860
```

GCTGTCGGGC ACCAGCCTTA GCTTTTGCGT GGTTGAATCG GAAACACTCT TGGTTGGGGA

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/938,548B

DATE: 09/17/98 TIME: 09:12:04

INPUT SET: S28690.raw GTTCCCAGTG CAAGGCCCTG GGGCACAGAG AGAACTGCAC AGGTGCATGC (2) INFORMATION FOR SEQ ID NO:2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Met Asn Leu Pro Ser Thr Lys Val Ser Trp Ala Ala Val Thr Leu Leu Leu Leu Leu Leu Leu Pro Pro Ala Leu Leu Ser Ser Gly Ala Ala Ala Gln Pro Leu Pro Asp Cys Cys Arg Gln Lys Thr Cys Ser Cys Arg Leu Tyr Glu Leu Leu His Gly Ala Gly Asn His Ala Ala Gly Ile Leu Thr Leu Gly Lys Arg Arg Ser Gly Pro Pro Gly Leu Gln Gly Arg Leu Gln Arg Leu Leu Gln Ala Ser Gly Asn His Ala Ala Gly Ile Leu Thr Met Gly Arg Arg Ala Gly Ala Glu Pro Ala Pro Arg Pro Cys Leu Gly Arg Arg Cys Ser Ala Pro Ala Ala Ala Ser Val Ala Pro Gly Gly Gln Ser Gly Ile (2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: Gln Pro Leu Pro Asp Cys Cys Arg Gln Lys Thr Cys Ser Cys Arg Leu Tyr Glu Leu Leu His Gly Ala Gly Asn His Ala Ala Gly Ile Leu Thr Leu 

(2) INFORMATION FOR SEQ ID NO:4:

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/938,548B

DATE: 09/17/98 TIME: 09:12:06

INPUT SET: S28690.raw

1
60
3 120
3 180
A 240
r 300
r 300
Г 300 A 360
T 300 A 360 T 420
T 300 A 360 T 420 C 480
T 300 A 360 T 420 C 480 G 540
'(

258

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/938,548B

DATE: 09/17/98 TIME: 09:12:08

														INI	orit s	ET: S28690.raw
206	I.eu	T.eu	Leu	Leu	Leu	Pro	Pro	λla	Leu	Leu	Ser	Leu	Glv			
207	200			20					25					30		
208	Gln	Pro	Leu	Pro	Asp	Cvs	Cvs	Ara		Lvs	Thr	Cvs	Ser		Ara	Leu
209			35			- 1 -	- ]	40		-1-		-1-	45	-1-	5	
210	Tvr	Glu		Leu	His	Glv	Ala		Asn	His	Ala	Ala	Glv	Ile	Leu	Thr
211	- 4 -	50					55	_				60				
212	Leu	Gly	Lys	Arg	Arq	Pro	Gly	Pro	Pro	Gly	Leu	Gln	Gly	Arg	Leu	Gln
213	65	-	-	_		70	•			-	75		•			80
214	Arg	Leu	Leu	Gln	Ala	Asn	Gly	Asn	His	Ala	Ala	Gly	Ile	Leu	Thr	Met
215	-				85		_			90		-			95	
216	Gly	Arg	Arg	Ala	Gly	Ala	Glu	Leu	Glu	Pro	Tyr	Pro	Cys	Pro	Gly	Arg
217				100					105					110		
218	Arg	Cys	Pro	Thr	Ala	Thr	Ala	Thr	Ala	Leu	Ala	Pro	Arg	Gly	Gly	Ser
219			115					120					125			
220	Arg	Val														
221		130														
222																
223	• •															
224																
225		(:	•	EQUE												
226		(A) LENGTH: 32 amino acids														
227				TYPE												
228				STRA				_	3							
229			(D)	TOP	)LOG	(; I)	ınear	r								
230				/OT 17/	311F 13	muni	<b>.</b>		·							
231		( -	11) 1	MOLE	COLE	TYPI	s: p:	rote.	Ln							
232 233		, ,		25011	anan	DEC	ימדמר	DTOM.		. TD	NO.	7.				
233		( )	KI) :	SEQUE	SNCE	וכשע	JRIP'	TION	; SE	עד נ	NO:	•				
235	Met	λen	Len	Pro	Sar	Пhr	T.vc	Val	Dro	Trn	λla	λla	Val	Thr	T.011	T.611
236	1	ASII	пец	110	5	1111	nyo	Val	110	10	AIG	ALG	VUL		15	Dea
237		T.e.11	T.e.11	Leu		Pro	Pro	Δla	Leu		Ser	Leu	Glv	Va1		Ala
238	200			20					25				,	30		
239														- •		
240			(2	) INI	FORM	ATIO	V FOI	R SEC	O ID	NO:8	3:					•
241			, -	,				;			•					¥ .
242		(:	i) SI	EQUE	NCE (	CHAR	ACTE	RIST:	cs:							
243		•		LEN												
244			(B)	TYPE	E: ar	nino	acio	£								
245			(C)	STR	ANDE	ONES	S: s:	ingle	9							
246			(D)	TOP	DLOG!	?: l:	inear	r								
247																
248		( :	ii) N	MOLE	CULE	TYPE	E: pi	rote:	in							
249																
250		( 2	ki) S	SEQUE	ENCE	DESC	CRIP	rion:	: SE	) ID	NO:8	3:				
251																
251 252	Gln	Pro	Leu	Pro	Asp	Cys	Cys	Arg	Gln	Lys	Thr	Cys	Ser	Cys		Leu
251 252 253	1				5	_				10		_			15	
251 252 253 254	1			Leu	5	_			Asn	10		_		Ile	15	
251 252 253 254 255	1 Tyr				5	_				10		_			15	
251 252 253 254	1			Leu	5	_			Asn	10		_		Ile	15	

# **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/08/938,548B*

DATE: 09/17/98 TIME: 09:12:10

INPUT SET: S28690.raw

Line

Error

Original Text